

AMENDMENTS TO SPECIFICATION

Amend the paragraph located on page 4, lines 17 to 20 of the filed application as follows:

The two methods described above generally relate to the steps which can be executed with the data processing unit according to the first or second aspect of the invention. With regard to the explanation of further details, advantages and features, the above description therefore applies.

Amend the paragraph beginning on page 5, line 31 and ending on page 6, line 9 of the filed application as follows:

After this segmentation and classification, it is established which image areas are associated with which object constituents a, b, c. Any subsequent processing steps can therefore be restricted to object constituents relevant to the task in hand. In the trend control of lung tumors, the only relevant object constituents are the lungs b. From complete images A1, [[B2]] A2, the reduced images B1, B2 are now generated, omitting all irrelevant object constituents a, c. These images B1, B2 reduced to the essential features can then be registered using conventional methods. As a result of this restriction to selected image areas, the relevant areas can be registered more quickly and with a higher degree of accuracy. This process is further accelerated by the fact that simpler transformation methods (for instance linear methods instead of splines) can be used while the accuracy remains constant in the relevant area. After the registration, the images (whole or restricted to the relevant image areas) can be displayed, for instance on a monitor 5, either next to or superimposed on one another.